## PATENT APPLICATION

## IN THE CLAIMS

Please cancel claim 12 and amend claims 1 to 8, 10, 11 and 14 in the manner set forth below.

1. (Amended) A magnetic unit, comprising:

a first group of at least a first pair of permanent magnets comprising either ceramic magnets or ferrous magnets having like poles of said permanent magnets positioned adjacent [an outer surface of] each other;

a second group of at least a second pair of permanent magnets comprising either ceramic magnets or ferrous magnets having like poles of said permanent magnets positioned adjacent each other, said first and said second groups of said permanent magnets defining a channel therebetween;

at least a third pair of magnetically permeable members comprising malleable steel members, malleable iron members, or molded iron members, one of said third pair being respectively located between said adjacent surfaces of said pair of permanent magnets and located adjacent each outer surface of said pair of permanent magnets; and

means for securing said pair of magnetically permeable members and said pair of permanent magnets, thus to provide a said magnetic unit which concentrates its magnetic flux through



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said malleable steel members at opposed locations in said channel:

at least a third permanent magnet located in said channel,

[a] each pole of said third magnet being positioned adjacent an opposite magnetic pole of said first pair of permanent [magnetics] magnets at a surface of one of said magnetically permeable members, [an opposite pole of said third magnet,] thus to maintain a stable positional relationship by the magnetic effect of the relationship among said first, second, and third permanent magnets.



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- 2. (Amended) The magnetic unit as set forth in claim 1, wherein the permeable members are each a malleable steel member which is located between said permanent magnets forming said first and said second pairs of permanent magnets.
- 3. (Amended) The magnetic unit as set forth in claim 1, further including a support member for supporting said third permanent magnet in said channel, said support member being secured to a second support member for a portion of [said]  $\underline{a}$  vehicle.
- 1 4. (Amended) The magnetic unit as set forth in claim 1, 2 further including at least a pair of said first and said second

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groups of said permanent [magnet members] <u>magnets</u> forming a pair
of said magnetic units, and an additional magnetically permeable
member located between said pair of said groups of said permanent
[magnet members] <u>magnets</u>.

- 5. (Amended) The magnetic unit as set forth in claim 4, wherein said magnetically permeable members located at the outer surfaces of said permanent magnet members are generally L-shaped.
- 6. (Amended) The magnetic unit as set forth in claim 4, wherein said magnetically permeable member located between said pair of said groups of said [magnetic members] permanent magnets is generally T-shaped.
- 7. (Amended) The magnetic unit as set forth in claim 4, wherein [one] a first of said pair of said groups of said permanent magnets is mounted on a support member of a vehicle, and [another] a second of said pair of said groups of said permanent magnets is mounted on a support member of a structure adjacent said vehicle, whereby attraction or repulsion of said pair contributes to levitating said vehicle.

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8. (Amended) The magnetic unit as set forth in claim 7, wherein means are providing for controlling a gap between said pair of groups of magnetic units.

1 10. (Amended) The magnetic unit as set forth in claim 9, 2 wherein a sufficient plurality of said pairs of said groups of 3 magnets are positioned along a right-of-way to cause wehicle[, 4 such as a train,] to be levitated for translational motion.

11. (Amended) A system for supporting  $\underline{a}$  train for traveling while levitated, comprising:

a first support member forming a portion of said train;

a [second] <u>stationary elongate</u> [support member for supporting] <u>right-of-way structure along which</u> said train <u>travels</u>[,];

a first plurality of adjacently-spaced, generally vertically-aligned groups of permanent magnets comprising ceramic magnets or ferrous magnets placed in an elongated face-to-face relationship [on each of] along said [first and said second support members] elongate right-of-way structure, said groups of said permanent magnets [and] being separated by magnetically permeable [materials to] material members which focus lines of flux into a channel defined between said plurality of groups of permanent magnets, said plurality of said groups being positioned

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to attract each other, said [plurality of groups defining a]

channel [therebetween] extending along essentially a full length

of said elongate right-of-way structure; and

a plurality of permanent magnets located in said channel with opposite magnetic poles facing poles on said first plurality of groups of magnetic members; and

a third support member [secured to] <u>interconnecting</u> said plurality of permanent magnets located in said channel [and secured to] with said first support member.

further including [a] roller guide [reference member] means secured to said [second] third support member [and] for projecting [intermediate] outwardly toward wall portions immediately proximate said channel and for remaining in a normally non-contact relationship with the wall portions.

## REMARKS

This is in full and timely response to the Official Action mailed April 5, 1996 (Paper No. 6). Reexamination and reconsideration are respectfully requested in view of the foregoing amendments and the following remarks.

Authorization, in a separate letter to the official draftsperson, is sought to amend Fig. 8 as originally filed in a